

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A heater resistance for heating a solid part, the resistance comprising:

an electric wire within a tube, wherein the wire is received in an electrically insulating material, such that the various strands of the wire are separated from one another by said electrically insulating material; and

~~a ceramic sheath surrounding the wire and interposed between the wire and the tube;~~
wherein the sheath includes a woven layer including a woven layer, wherein the sheath surrounds an assembly formed by the wire and the electrically insulating material and is interposed between the assembly and the tube.

2. (Previously Presented) A heater resistance according to claim 1, wherein the woven layer comprises threads of alumina (Al_2O_3).

3. (Previously Presented) A heater resistance according to claim 1, wherein the woven layer comprises threads of silica (SiO_2).

4. (Previously Presented) A heater resistance according to claim 1, wherein the woven layer comprises threads of borate (B_2O_3).

5. (Previously Presented) A heater resistance according to claim 1, further comprising a mass of electrically insulating material, interposed between the wire and the sheath.

6. (Previously Presented) A heater resistance according to claim 5, wherein the insulating mass includes a mineral.

7. (Previously Presented) A heater resistance according to claim 1, including a portion of generally elongate shape.

8. (Previously Presented) A heater resistance according to claim 1, further comprising a connector and heater segment and a connection segment adjacent to the connector, the wire

having a cross-section in the connection section of area that is greater than the area of the cross-section of the wire in the heater segment.

9. (Previously Presented) A heater resistance according to claim 1, further comprising a connector and a portion adjacent to the connector that is tapering in shape.

10. (Previously Presented) A probe mounted on board a vehicle for measuring an air flow parameter, including temperature, the probe comprising a body and at least one heater resistance according to claim 1, the heater resistance being secured to the body.

11. (Previously Presented) A probe according to claim 10, wherein the heater resistance is of a shape that is not plane.

12. (Previously Presented) A probe according to claim 10, wherein the heater resistance extends at the outside of the body.

13. (Previously Presented) A method of fabricating a probe for mounting on board a vehicle for measuring an air flow parameter including temperature, the method comprising deforming a heater resistance according to claim 1 in order to enable the heater resistance to be secured to a body of the probe.

14. (Previously Presented) A heater resistance according to claim 6, wherein the mineral includes magnesia (MgO).